| X<br>Nai<br>1 | me mensional unalysis -> given? fine   | Date  July 7   MS | Given x — find units given units  |
|---------------|--|-------------------|---|
| 1.            | Find the mass of 0.89 mol of CaCl <sub>2</sub> .   | X                 | Determine the number of atoms that are in 0.58 mol of Se.   |
| 2.            | A bottle of $PbSO_4$ contains 158.1 g of the compound. How many moles of $PbSO_4$ are in the bottle?                 | 1                 | How many moles of barium nitrate (BaNO <sub>3</sub> ) contain 6.80 x 10 <sup>24</sup> formula units?  |
| 3.            | Find the mass of 1.112 mol of HF.  | <b>J</b> V.       | Determine the number of atoms that are in 1.25 mol of $O_2$ .   |
| 4.            | Determine the number of moles of $C_5H_{12}$ that are in 362.8 g of the compound.                                    | <b>)</b>          | How many moles of magnesium bromide (MgBr <sub>2</sub> ) contain $5.38 \times 10^{-4}$ formula units? |
| 5.            | Find the mass of 0.159 mol of SiO <sub>2</sub> .   | 13/               | Determine the number of formula units that are in 0.688 mol of AgNO <sub>3</sub> .                    |
| 6.            | You are given 12.35 g of C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> . How many moles of the compound do you have?  | ×                 | How many moles of ethane $(C_2H_6)$ contain 8.46 x $10^{24}$ formula units?                           |
| 7.            | Find the mass of 3.66 mol of N <sub>2</sub> .  | *                 | Determine the number of formula units that are in 1.48 mol of NaF.                                    |
| 8.            | A bottle of KMnO <sub>4</sub> contains 66.38 g of the compound. How many moles of KMnO <sub>4</sub> does it contain? | *                 | How many formula units are in 3.5 g o NaOH?   |

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